

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 5125C**  
**Page 1 of 1 Pages**

**Issue: 10**  
**Issue Date: 1/29/2008**  
**Effective Date: 3/1/2008**

**A. Construction**

**Diameters (In)**

- 1) Component 1 5 X 1 PAIR
    - a) Conductor 22 (7/30) AWG TC
    - b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.050
      - (1) Color Code Alpha Wire Company Color Code B
- | Pair | Color       | Pair | Color        | Pair | Color        |
|------|-------------|------|--------------|------|--------------|
| 1    | WHITE-BLACK | 3    | WHITE-RED    | 5    | WHITE-YELLOW |
| 2    | WHITE-BROWN | 4    | WHITE-ORANGE |      |              |
- c) Pair 2/Cond Cabled Together
    - (1) Twists: 8.0 Twists/foot (min)
  - 2) Cable Assembly 5 Components Cabled
    - a) Twists: 4.8 Twists/foot (min)
    - b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
  - 3) Shield: A/P/A Tape, 25% Overlap, Min.
    - a) Drain Wire 22 (7/30) AWG TC
    - b) Braid TC, 70% Coverage, Min.
  - 4) Jacket 0.032" Wall, Nom., PVC 0.319 (0.335 Max.)
    - a) Color(s) Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White
    - b) Ripcord 1 End 810 Denier Nylon
    - c) Print ALPHA WIRE-\* P/N 5125C 5PR 22 AWG  
XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME ENVIRONMENTS - SHIELDED 105C (UL) TYPE CM OR AWM 2464 VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4  
CE ROHS <SEQ FOOTAGE>  
\* = Factory Code

*[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*

**B. Industry Approvals**

- 1) UL
  - a) Component 1 AWM/STYLE 10002 105°C / 300 VRMS
  - b) Overall AWM/STYLE 2464 80°C / 300 VRMS  
CM 105°C  
VW-1
- 2) CSA International CMG 105°C  
FT4
- 3) EU Directive 2002/95/EC(RoHS):  
All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
- 4) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.
- 5) CE: LVD 73/23/EEC Amendment 93/68/EEC

**C. Physical & Mechanical Properties**

- 1) Temperature Range -20 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 66 Lbs, Maximum
- 4) Sunlight Resistance Yes

**D. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 300 VRMS
- 2) Mutual Capacitance 27 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance 49 pf/ft @1 kHz, Nominal

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- 4) Characteristic Impedance      70  $\Omega$
- 5) Inductance                      0.18  $\mu$ H/ft, Nominal
- 6) Conductor DCR                16.7  $\Omega$ /1000ft @20°C, Nominal
- 7) OA Shield DCR                2.7  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
  - a) 1000 FT
  - b) 500 FT
  - c) 100 FT
  - d) Bulk(Made-to-order)

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